

FIG. 1

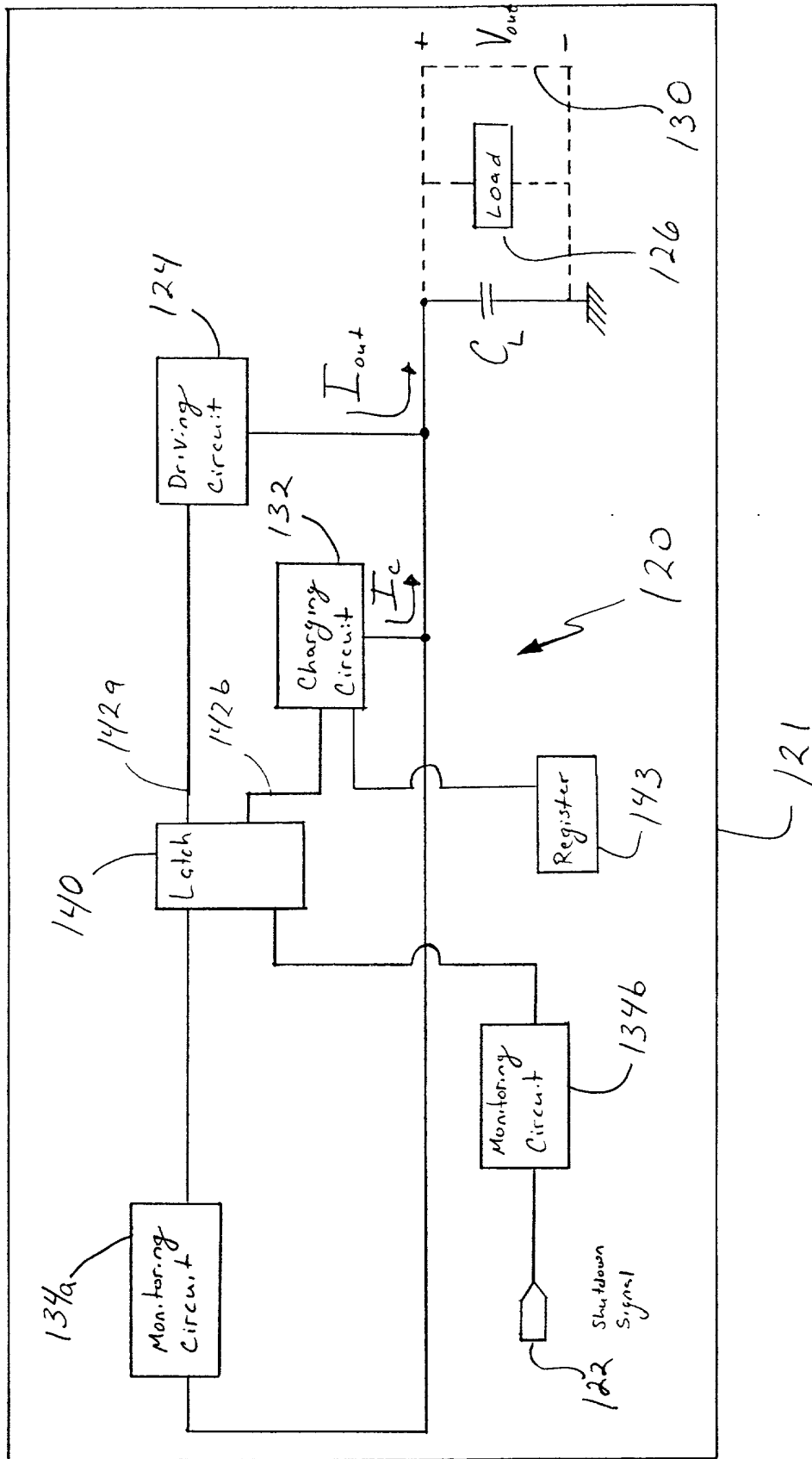


FIG. 2

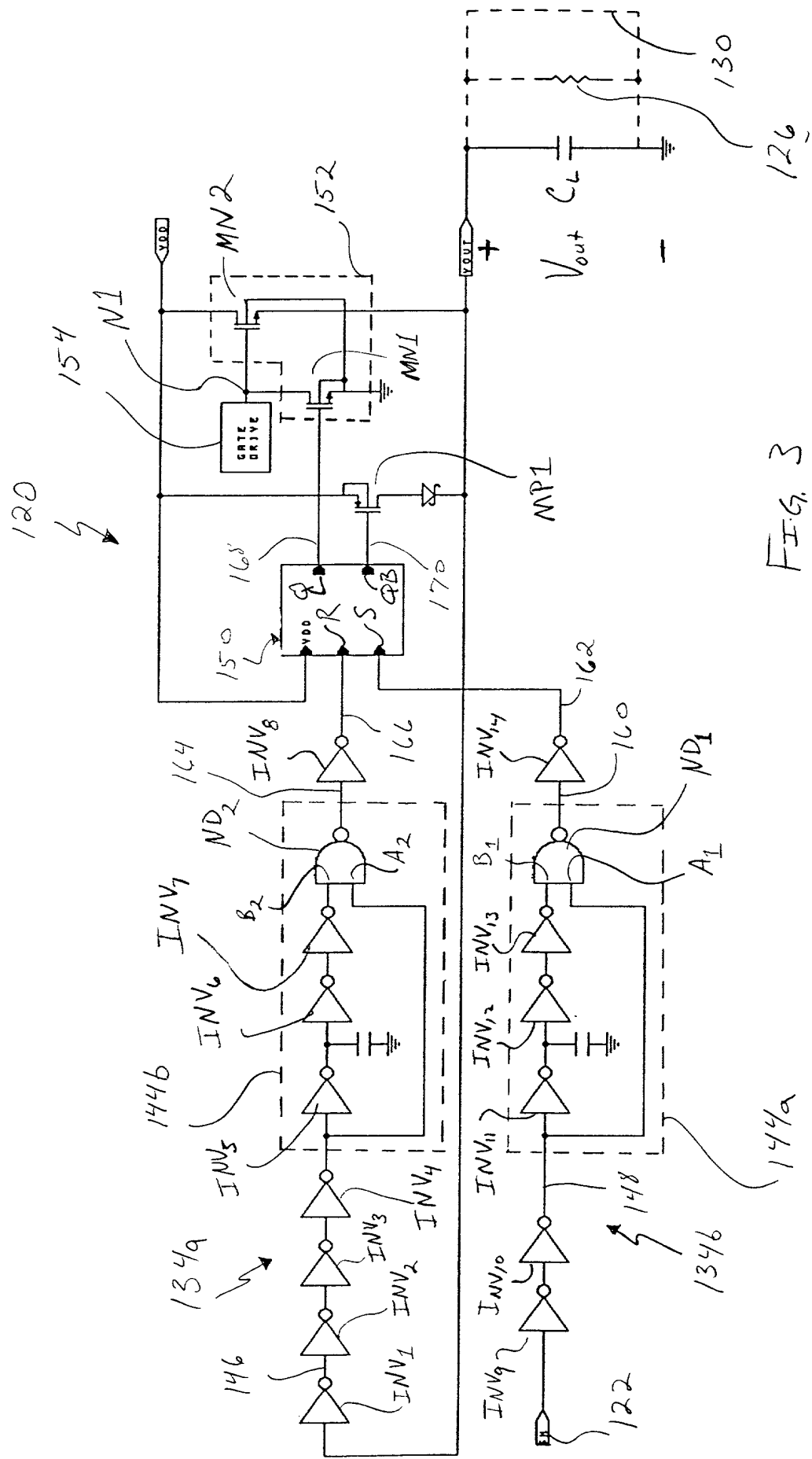


Fig. 3

Figure 1 consists of 12 sub-graphs labeled (a) through (l), each showing the growth of *E. coli* O157:H7 in ground beef under different conditions. The y-axis for all graphs is \log_{10} CFU/g, ranging from 0 to 12. The x-axis is time in hours, ranging from 0 to 120. The graphs show various growth curves, including control, heat treatment, and different chemical treatments.

- (a) Control: Shows a steady increase in bacterial count over time, reaching approximately 11.5 \log_{10} CFU/g by 120 hours.
- (b) Heat treatment: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (c) 10% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (d) 20% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (e) 30% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (f) 40% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (g) 50% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (h) 60% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (i) 70% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (j) 80% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (k) 90% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.
- (l) 100% NaCl: Shows a rapid initial increase, peaking around 10 \log_{10} CFU/g at 20 hours, followed by a decline to about 8 \log_{10} CFU/g by 120 hours.

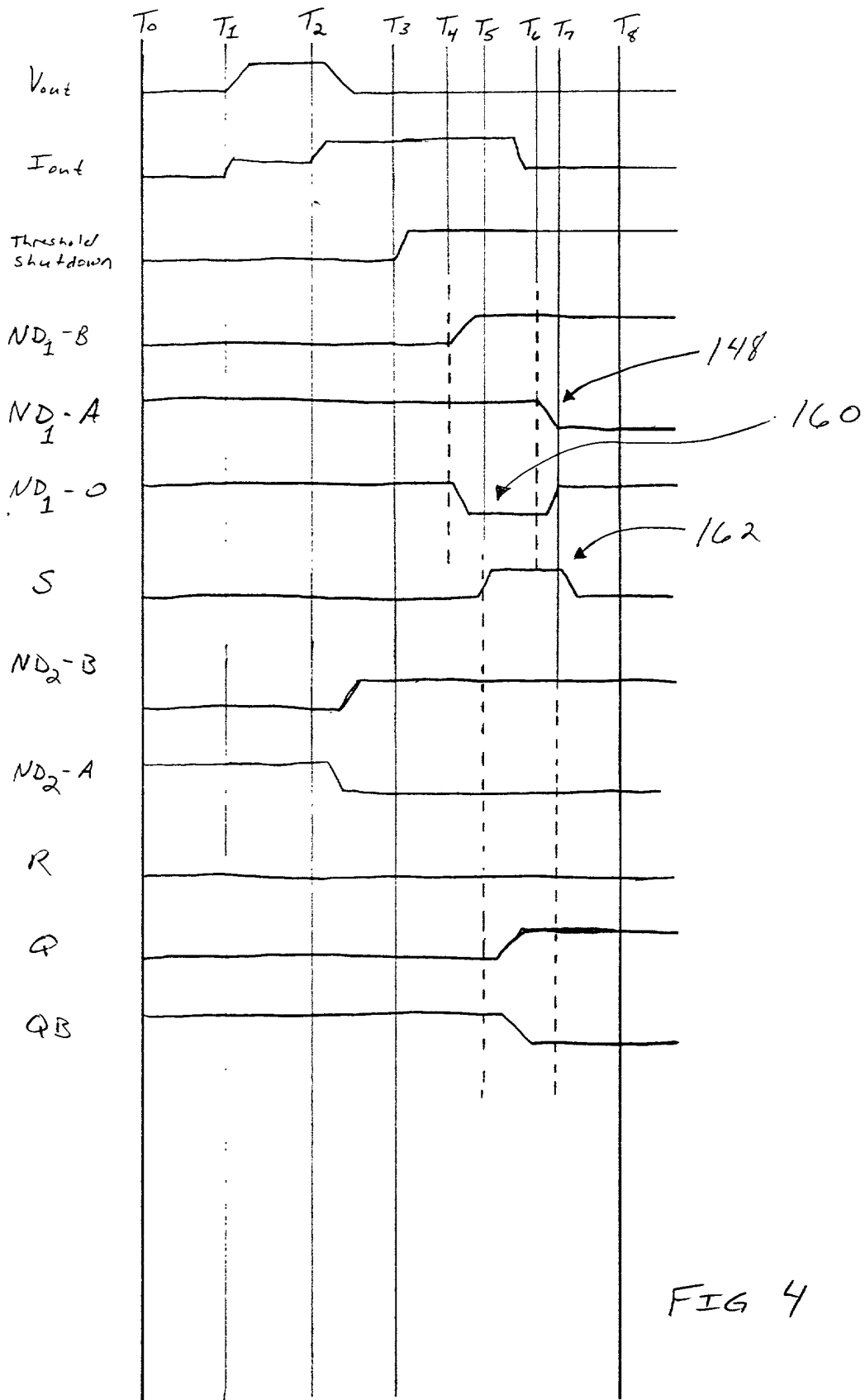


FIG 4

| Study | Year | Country | Sample Size (n) | Age Range (years) | Gender | Prevalence (%) | 95% CI | Notes |
|-------|------|---------|-----------------|-------------------|--------|----------------|---------|------------------|
| 1 | 1998 | USA | 1,000 | 18-24 | F | 1.2 | 0.5-2.1 | First-time users |
| 2 | 2001 | USA | 2,500 | 18-24 | F | 1.8 | 0.8-3.2 | First-time users |
| 3 | 2003 | USA | 1,500 | 18-24 | F | 1.5 | 0.7-2.8 | First-time users |
| 4 | 2005 | USA | 3,000 | 18-24 | F | 2.1 | 1.0-3.5 | First-time users |
| 5 | 2007 | USA | 2,000 | 18-24 | F | 1.9 | 0.9-3.1 | First-time users |
| 6 | 2009 | USA | 1,800 | 18-24 | F | 1.7 | 0.8-2.9 | First-time users |
| 7 | 2011 | USA | 2,200 | 18-24 | F | 2.0 | 1.0-3.3 | First-time users |
| 8 | 2013 | USA | 1,600 | 18-24 | F | 1.6 | 0.7-2.7 | First-time users |
| 9 | 2015 | USA | 2,400 | 18-24 | F | 2.2 | 1.1-3.6 | First-time users |
| 10 | 2017 | USA | 1,900 | 18-24 | F | 1.8 | 0.9-3.0 | First-time users |
| 11 | 2019 | USA | 2,100 | 18-24 | F | 2.0 | 1.0-3.4 | First-time users |
| 12 | 2021 | USA | 1,700 | 18-24 | F | 1.7 | 0.8-2.8 | First-time users |
| 13 | 2023 | USA | 2,300 | 18-24 | F | 2.1 | 1.1-3.5 | First-time users |
| 14 | 2025 | USA | 1,800 | 18-24 | F | 1.9 | 0.9-3.1 | First-time users |
| 15 | 2027 | USA | 2,000 | 18-24 | F | 2.0 | 1.0-3.3 | First-time users |
| 16 | 2029 | USA | 1,600 | 18-24 | F | 1.6 | 0.7-2.7 | First-time users |
| 17 | 2031 | USA | 2,400 | 18-24 | F | 2.2 | 1.1-3.6 | First-time users |
| 18 | 2033 | USA | 1,900 | 18-24 | F | 1.8 | 0.9-3.0 | First-time users |
| 19 | 2035 | USA | 2,100 | 18-24 | F | 2.0 | 1.0-3.4 | First-time users |
| 20 | 2037 | USA | 1,700 | 18-24 | F | 1.7 | 0.8-2.8 | First-time users |
| 21 | 2039 | USA | 2,300 | 18-24 | F | 2.1 | 1.1-3.5 | First-time users |
| 22 | 2041 | USA | 1,800 | 18-24 | F | 1.9 | 0.9-3.1 | First-time users |
| 23 | 2043 | USA | 2,000 | 18-24 | F | 2.0 | 1.0-3.3 | First-time users |
| 24 | 2045 | USA | 1,600 | 18-24 | F | 1.6 | 0.7-2.7 | First-time users |
| 25 | 2047 | USA | 2,400 | 18-24 | F | 2.2 | 1.1-3.6 | First-time users |
| 26 | 2049 | USA | 1,900 | 18-24 | F | 1.8 | 0.9-3.0 | First-time users |
| 27 | 2051 | USA | 2,100 | 18-24 | F | 2.0 | 1.0-3.4 | First-time users |
| 28 | 2053 | USA | 1,700 | 18-24 | F | 1.7 | 0.8-2.8 | First-time users |
| 29 | 2055 | USA | 2,300 | 18-24 | F | 2.1 | 1.1-3.5 | First-time users |
| 30 | 2057 | USA | 1,800 | 18-24 | F | 1.9 | 0.9-3.1 | First-time users |
| 31 | 2059 | USA | 2,000 | 18-24 | F | 2.0 | 1.0-3.3 | First-time users |
| 32 | 2061 | USA | 1,600 | 18-24 | F | 1.6 | 0.7-2.7 | First-time users |
| 33 | 2063 | USA | 2,400 | 18-24 | F | 2.2 | 1.1-3.6 | First-time users |
| 34 | 2065 | USA | 1,900 | 18-24 | F | 1.8 | 0.9-3.0 | First-time users |
| 35 | 2067 | USA | 2,100 | 18-24 | F | 2.0 | 1.0-3.4 | First-time users |
| 36 | 2069 | USA | 1,700 | 18-24 | F | 1.7 | 0.8-2.8 | First-time users |
| 37 | 2071 | USA | 2,300 | 18-24 | F | 2.1 | 1.1-3.5 | First-time users |
| 38 | 2073 | USA | 1,800 | 18-24 | F | 1.9 | 0.9-3.1 | First-time users |
| 39 | 2075 | USA | 2,000 | 18-24 | F | 2.0 | 1.0-3.3 | First-time users |
| 40 | 2077 | USA | 1,600 | 18-24 | F | 1.6 | 0.7-2.7 | First-time users |
| 41 | 2079 | USA | 2,400 | 18-24 | F | 2.2 | 1.1-3.6 | First-time users |
| 42 | 2081 | USA | 1,900 | 18-24 | F | 1.8 | 0.9-3.0 | First-time users |
| 43 | 2083 | USA | 2,100 | 18-24 | F | 2.0 | 1.0-3.4 | First-time users |
| 44 | 2085 | USA | 1,700 | 18-24 | F | 1.7 | 0.8-2.8 | First-time users |
| | | | | | | | | |

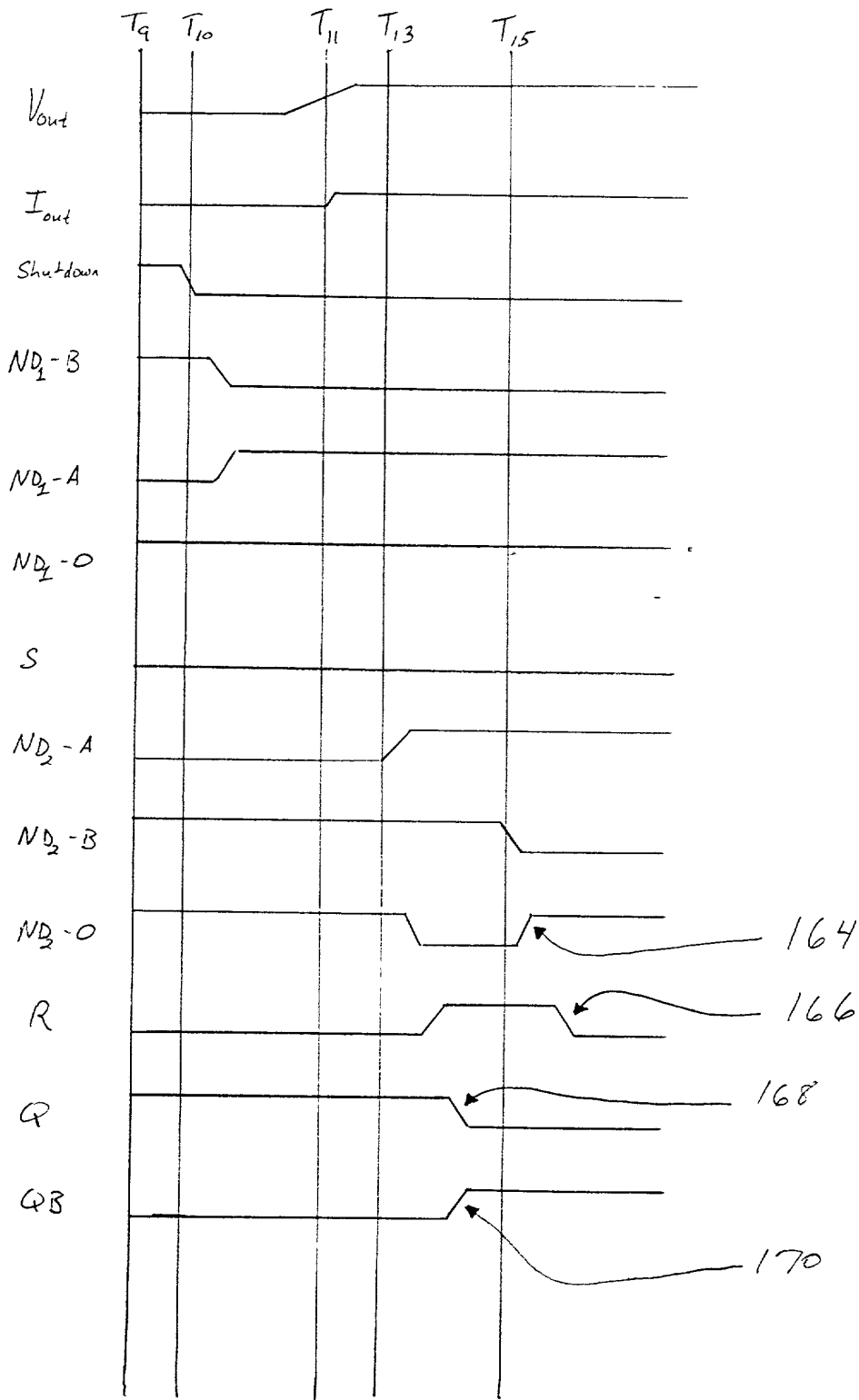


FIG 5

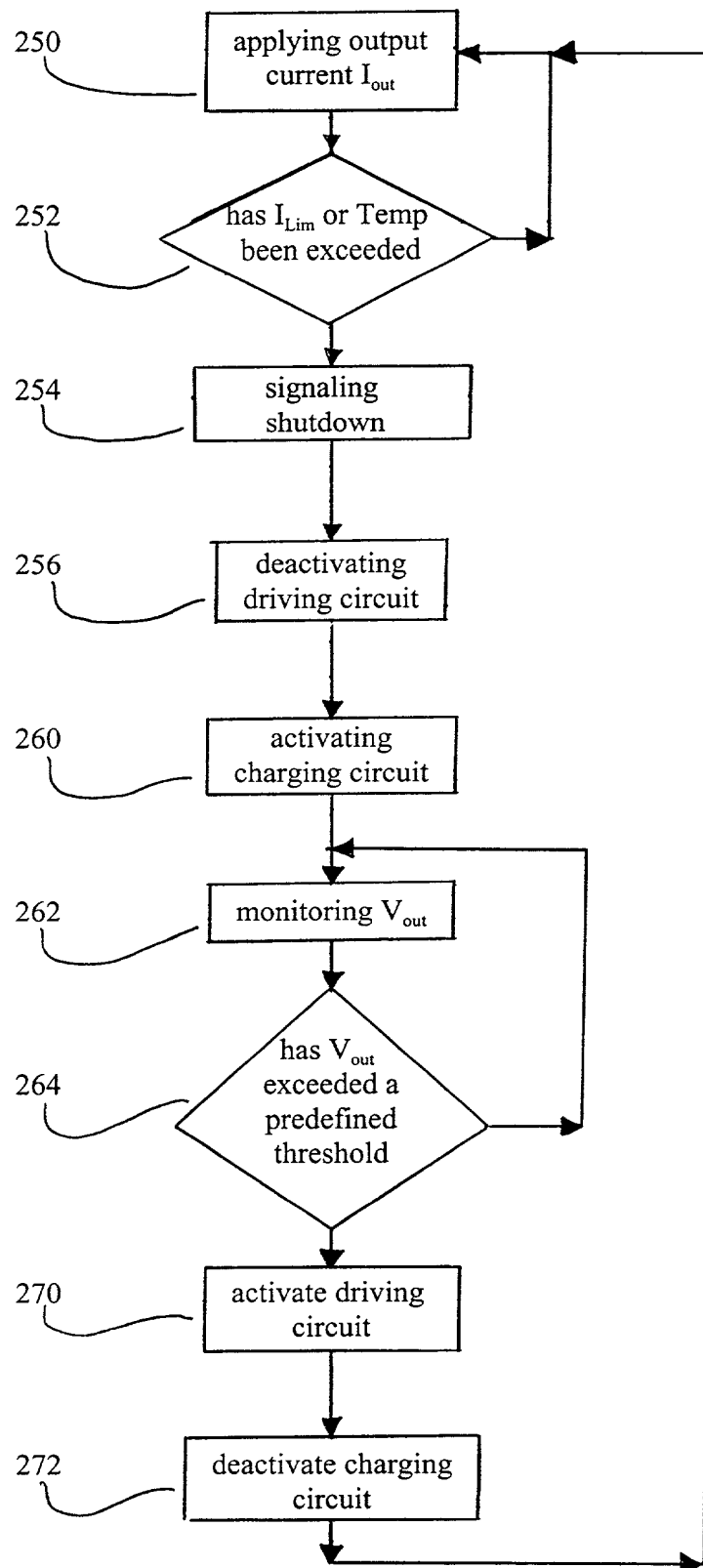


FIG. 6

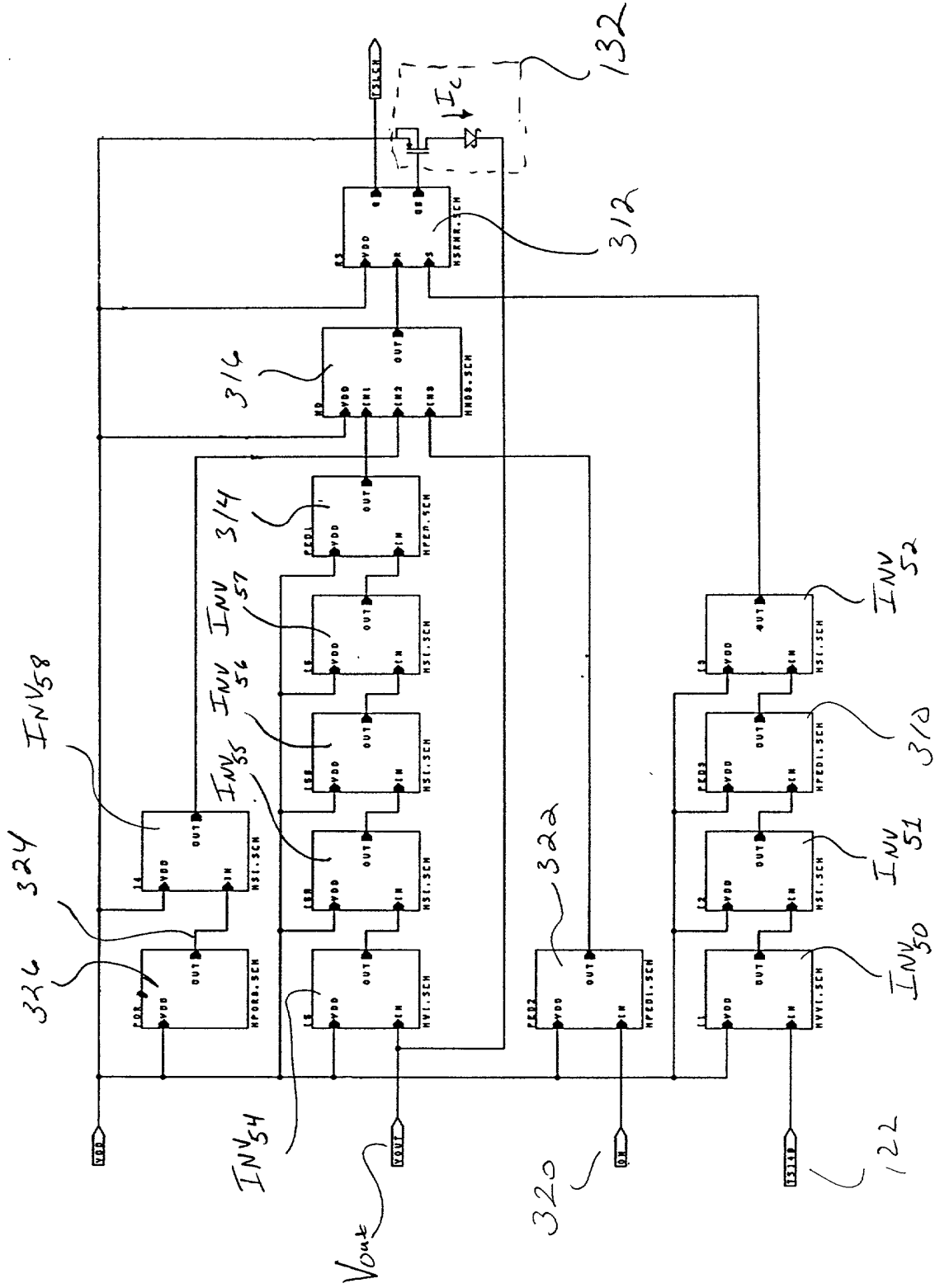


FIG. 7